

FORM PTO-1390
(REV. 5-93)U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICEATTORNEY'S DOCKET NUMBER
10191/1098**TRANSMITTAL LETTER TO THE UNITED STATES
DESIGNATED/ELECTED OFFICE (DO/EO/US)
CONCERNING A FILING UNDER 35 U.S.C. 371**

U.S. APPLICATION NO. (If known, see 37 CFR 1.5)

09/381538INTERNATIONAL APPLICATION NO.
PCT/DE98/00303INTERNATIONAL FILING DATE
04 February 1998
(04.02.98)PRIORITY DATE CLAIMED:
21 March 1997
(21.03.97)

TITLE OF INVENTION

APPARATUS FOR INFLUENCING THE OPERATING STATE OF AN ELECTRONIC DEVICEAPPLICANT(S) FOR DO/EO/US
GRÖGER, Klaus-Erwin

Applicant(s) herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:

1. ☒ This is a **FIRST** submission of items concerning a filing under 35 U.S.C. 371.
2. ☐ This is a **SECOND** or **SUBSEQUENT** submission of items concerning a filing under 35 U.S.C. 371.
3. ☒ This is an express request to begin national examination procedures (35 U.S.C. 371(f)) at any time rather than delay examination until the applicable time limit set in 35 U.S.C. 371(b) and PCT Articles 22 and 39(1).
4. ☒ A proper Demand for International Preliminary Examination was made by the 19th month from the earliest claimed priority date.
5. ☒ A copy of the International Application as filed (35 U.S.C. 371(c)(2))
 - a. ☐ is transmitted herewith (required only if not transmitted by the International Bureau).
 - b. ☒ has been transmitted by the International Bureau.
 - c. ☐ is not required, as the application was filed in the United States Receiving Office (RO/US)
6. ☒ A translation of the International Application into English (35 U.S.C. 371(c)(2)).
7. ☒ Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3))
 - a. ☐ are transmitted herewith (required only if not transmitted by the International Bureau).
 - b. ☐ have been transmitted by the International Bureau.
 - c. ☐ have not been made; however, the time limit for making such amendments has NOT expired.
 - d. ☒ have not been made and will not be made.
8. ☐ A translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).
9. ☒ An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4))
10. ☒ A translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).

Items 11. to 16. below concern other document(s) or information included:

11. ☒ An Information Disclosure Statement under 37 CFR 1.97 and 1.98.
12. ☒ An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.
13. ☒ A **FIRST** preliminary amendment.
☐ A **SECOND** or **SUBSEQUENT** preliminary amendment.
14. ☐ A substitute specification.
15. ☐ A change of power of attorney and/or address letter.
16. ☒ Other items or information: International Search Report, International Preliminary Examination Report, PCT/RO/101 and Return Receipt P

Express Mail No.:

EL303287371US

17. ☒ The following fees are submitted:

Basic National Fee (37 CFR 1.492(a)(1)-(5)):

Search Report has been prepared by the EPO or JPO \$840.00

International preliminary examination fee paid to USPTO (37 CFR 1.482) . \$670.00

No international preliminary examination fee paid to USPTO (37 CFR 1.482) but international search fee paid to USPTO (37 CFR 1.445(a)(2)) \$760.00

Neither international preliminary examination fee (37 CFR 1.482) nor international search fee (37 CFR 1.445(a)(2)) paid to USPTO \$970.00

International preliminary examination fee paid to USPTO (37 CFR 1.482) and all claims satisfied provisions of PCT Article 33(2)-(4) \$96.00

ENTER APPROPRIATE BASIC FEE AMOUNT = \$ 840

Surcharge of \$130.00 for furnishing the oath or declaration later than ☐ 20 ☐ 30 months from the earliest claimed priority date (37 CFR 1.492(e)). \$

Claims	Number Filed	Number Extra	Rate		
Total Claims	8 - 20 =	0	X \$18.00	\$0	
Independent Claims	3 - 3 =	0	X \$78.00	\$0	
Multiple dependent claim(s) (if applicable)			+ \$260.00	\$	

TOTAL OF ABOVE CALCULATIONS = \$840

Reduction by 1/2 for filing by small entity, if applicable. Verified Small Entity statement must also be filed. (Note 37 CFR 1.9, 1.27, 1.28). \$

SUBTOTAL = \$840

Processing fee of \$130.00 for furnishing the English translation later the ☐ 20 ☐ 30 months from the earliest claimed priority date (37 CFR 1.492(f)). + \$

TOTAL NATIONAL FEE = \$840

Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property + \$

TOTAL FEES ENCLOSED = \$840

Amount to be:	
refunded	\$
charged	\$

a. ☐ A check in the amount of \$_____ to cover the above fees is enclosed.

b. ☒ Please charge my Deposit Account No. 11-0600 in the amount of \$840.00 to cover the above fees. A duplicate copy of this sheet is e

c. ☒ The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account 11-0600. A duplicate copy of this sheet is enclosed.

NOTE: Where an appropriate time limit under 37 CFR 1.494 or 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed granted to restore the application to pending status.

SEND ALL CORRESPONDENCE TO:

Kenyon & Kenyon
One Broadway
New York, New York 10004

SIGNATURE

Richard L. Mayer, Reg. No. 22,490
NAME

9/21/99

208242

DATE

09/381538

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[10191/1098]

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s) : Klaus-Erwin GRÖGER
Serial No. : To Be Assigned
Filed : Herewith
For : APPARATUS FOR INFLUENCING THE OPERATING
STATE OF AN ELECTRONIC DEVICE
Examiner : To Be Assigned
Group Art Unit : To Be Assigned

Assistant Commissioner for Patents
Washington, D.C. 20231

PRELIMINARY AMENDMENT

SIR:

Please amend the above-identified application before examination as follows:

In The Specification:

On page 1, line 1, change "Background of the Invention" to --Background Information--.

On page 1, line 4, delete ", according to the species defined in the principal claim".

On page 1, line 6, change "DE Utility Model" to --German Published Patent Application No.--.

On page 1, line 6, change "has disclosed" to --describes--.

On page 1, line 16, change "Summary of the Invention" to --Summary Of The Invention--.

On page 1, line 18, delete "having the features of the principal claim".

On page 2, delete lines 18-27 and in their place insert:

--Brief Description Of The Drawings

Figure 1 shows a block diagram of an apparatus according to the present invention.

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Figure 2 shows an advantageous exemplary embodiment for carrying out the apparatus according to the present invention.

Detailed Description--.

On page 3, line 3, change "FIG." to --Figure--.

On page 4, line 17, change "FIG." to --Figure--.

On page 7, line 1, after "device" insert --10--.

On page 7, line 7, after "device" insert --10--.

On page 8, line 1, change "Claims" to

--What Is Claimed Is:--.

In The Claims:

Please cancel original claims 1-6 and cancel substitute claims 1-8, without prejudice, and add new claims 9-16 as follows:

--9. (New) An arrangement for influencing an operating state of an electronic device, comprising:

at least one operating unit;

a movable part for operating the electronic device and on which the at least one operating unit is arranged, the movable part including:

a transponder, and

a code generator;

and

a transmission and reception device connected to the electronic device and including:

a transmission unit for emitting an electromagnetic oscillation for exciting the transponder,

a reception unit for receiving and demodulating a modulated electromagnetic oscillation emitted from the transponder, and

an analysis unit for converting the demodulated electromagnetic oscillation

emitted from the transponder into control instructions for influencing the operating state of the electronic device, wherein:

the code generator generates a plurality of codes to be selected via the at least one operating unit in order to modulate the electromagnetic oscillation emitted from the transponder, and

a plurality of further operating states of the electronic device is initiated by a selection of the plurality of codes.

10. (New) The arrangement according to claim 9, wherein a radiation of the electromagnetic oscillation for exciting the transponder and a radiation of the electromagnetic oscillation emitted from the transponder are provided in a continuous alternation.

11. (New) The arrangement according to claim 9, wherein a range of the electromagnetic oscillation emitted from the transmission unit and a range of the electromagnetic oscillation emitted from the transponder are confined to a predefined circumference around the transmission and reception device and the movable part that is necessary for an operation of the electronic device.

12. (New) An apparatus for controlling an electronic device, comprising:
at least one operating unit; and
a movable part on which is arranged the at least one operating unit and including:
a transponder, and
a code generator for generating a plurality of codes to be selected via the at least one operating unit in order to modulate an electromagnetic oscillation emitted from the transponder.

13. (New) The apparatus according to claim 12, wherein:
the at least one operating unit includes a plurality of operating elements including a plurality of pushbuttons, and

each code of the plurality of codes generated by the code generator is associated with a respective one of the plurality of operating elements.

14. (New) The apparatus according to claim 12, further comprising:
a further control unit for limiting one of a production and an emission of the transmitted modulated electromagnetic oscillation to a time necessary for a transfer of a selected one of the plurality of codes.
15. (New) A remotely controllable electronic device, comprising:
a transmission and reception device including:
a transmission unit for emitting an electromagnetic oscillation for exciting a transponder, and
a reception unit for receiving and demodulating a modulated electromagnetic oscillation emitted from the transponder; and
an analysis unit for converting the demodulated electromagnetic oscillation emitted from the transponder into control instructions for influencing an operating state of the electronic device.
16. (New) The electronic device according to claim 15, wherein the electronic device is an entertainment electronics device including an audio device for a motor vehicle.--.

In The Abstract:

Delete the present Abstract and in its place insert the following:

--Abstract Of The Disclosure

An apparatus includes a movable part and a transmission and reception device, for remote control of an electronic device, in particular of an entertainment electronic device, using a transponder. In order to initiate various functions, there are stored in a memory of the movable part various codes that, after selection by way of an operating unit, e.g. pushbutton, arranged in the movable part, are emitted from a transponder arranged in the movable part in the form of a modulated transmitted signal that is analyzed in

the device in order to produce control signals.--.

Remarks

This Preliminary Amendment cancels original claims 1-6 and substitute claims 1-8 in the underlying PCT Application No. PCT/DE98/00303, and adds new claims 9-16. The new claims do not add new matter to the application but do conform the claims to U.S. Patent and Trademark Office rules.

The amendments to the specification and abstract are to conform the specification and abstract to U.S. Patent and Trademark Office rules. The amendments to the specification and abstract do not introduce new matter into the application.

The underlying PCT application includes a Search Report dated July 21, 1998, and a Preliminary Examination Report dated March 4, 1999. An English translation of the Preliminary Examination Report is submitted herewith.

Applicant asserts that the present invention is new, non-obvious, and useful. Consideration and allowance of the claims are requested.

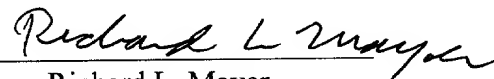
Respectfully submitted,

KENYON & KENYON

Dated:

9/21/99

By:



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09/381538
514 Rec'd PCT/PTO 21 SEP 1999

[10191/1098]

APPARATUS FOR INFLUENCING THE OPERATING STATE OF AN ELECTRONIC
DEVICE

Background of the Invention

The present invention is based on an apparatus for influencing the operating state of an electronic device using a transponder, according to the species defined in the principal claim.

5 DE Utility Model 295 14 056 has disclosed a device for protecting an audio device from unauthorized use in which, after removal of a movable part detachably joined to the audio device, operation of the audio device is interrupted and is not enabled again, after the movable part has been put back, until an access code that is accepted as authorized by the audio device is emitted
10 from the transponder arranged for that purpose in the movable part.

Also known from the field of entertainment electronics, for the operation of, for example, television sets, video recorders, and audio systems, are infrared remote controllers with which at least a portion of the available functions of the relevant device can be remotely controlled.

15 Summary of the Invention

The apparatus according to the present invention having the features of the principal claim has the advantage that a movable part equipped with a transponder can be used not only as a simple theft
20 protection system but also as a remote controller for controlling electronic devices.

The apparatus according to the present invention has the advantage, as compared to known infrared remote controllers, that because a transponder is used, batteries for supplying energy to the movable part are superfluous. This results in a reduction in the weight and volume of the movable
25 part, and also eliminates the need to dispose of environmentally incompatible used batteries.

A further advantage of the proposed approach is that precise alignment of the movable part on the device-mounted receiver is not necessary, since, in contrast to known infrared remote controllers,

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the transfer of electromagnetic waves emitted by the movable part to the receiver functions even in the absence of visual contact.

In addition, the insensitivity of the apparatus to incident light prevents improper operation, as a consequence of stray incident light, of the device being operated.

It is furthermore advantageous that the oscillation exciting the transponder, and the transmitted signal of the transponder, are emitted in continuous alternation. In this fashion, the exciting oscillation and the transmitted signal can be transmitted on the same transmission frequency, so that the oscillating circuits in both the receiver and the transponder can be optimized for the transmission and reception of the electromagnetic oscillations on the same frequency.

In terms of the specifications applicable to the electromagnetic compatibility of electronic systems, it is advantageous to match the transmission frequency and transmission output to one another so that propagation of the oscillations which excite the transponder or are emitted by the transponder is confined to the premises in which the device to be operated is located.

Drawings

Exemplary embodiments of the invention are depicted in the drawings, and will be explained in more detail in the description below.

FIG. 1 shows a block diagram of an apparatus according to the present invention, and FIG. 2 an advantageous exemplary embodiment for carrying out the apparatus according to the present invention.

Detailed Description

The apparatus according to the present invention is explained below using the example of a car radio; it is not confined to that example, however, but rather is generally applicable to electronic devices in the field of entertainment electronics, for example television sets, video recorders, audio

systems, and also to electronic devices in general.

FIG. 1 depicts a block diagram of the apparatus according to the present invention, comprising a movable part 20 and a transmission and reception device 10 that in turn is connected to electronic device 30 that is to be influenced, in the present case a car radio.

Transmission and reception device 10 comprises a transmission unit 12 for producing a high-frequency electromagnetic oscillation for exciting transponder 22-25 that is arranged in movable part 20 (hereinafter also referred to in abbreviated fashion as the excitation oscillation) that is emitted via the attached antenna 11. To control the transmission operations, transmission unit 12 is connected to a control unit 13.

Transmission and reception unit 10 furthermore comprises a reception unit 14, also connected to antenna 11, that receives the modulated electromagnetic oscillation emitted from the transponder for reception and demodulation (hereinafter referred to in abbreviated fashion as the transmitted signal). The demodulated received signal present at the output of reception unit 14 is delivered to an analysis unit 15 for allocation of the control instructions and functions with which electronic device 30 connected to transmission and reception unit 10 is controlled.

Movable part 20 comprises a further antenna 21, for receiving the excitation oscillation emitted by transmission and reception device 10, that is connected to a circuit 22 for recovering the energy contained in the excitation oscillation. Energy recovery circuit 22 is in turn connected to an energy reservoir 23.

Movable part 20 furthermore comprises an operating unit 26, comprising operating elements 28 such as, for example, pushbuttons, with which the codes produced in a code generator 27 can be selected. For that purpose, operating unit 26 is connected via a further control unit 25 to code generator 27. The codes produced in code generator 27 are delivered to a further transmission unit 24 for production of an electromagnetic oscillation that is modulated with the code delivered by code generator 27 and emitted via further antenna 21.

In the present case, code generator 27 comprises a memory in which a number of codes are stored. This memory can be addressed via operating elements of operating unit 26, so that specific codes can be selected as a function of the actuation of one or more operating elements 28 of operating unit 26.

In the present exemplary embodiment, provision is made for the oscillation emitted by further antenna 21 to be modulated directly with the code read out from the memory.

In a further exemplary embodiment, the code generator comprises an encryption algorithm with which the codes read out from the memory are encrypted, so that the transmitted signal of the transponder is modulated with an encrypted code.

To make available the energy necessary for production of the transmitted signal, further transmission unit 24 is connected to energy reservoir 23.

The manner of operation of the apparatus according to the present invention will be described below with reference to the exemplary embodiment depicted in FIG. 2 of the apparatus according to the present invention.

To interrogate control codes that are selected by the actuation of buttons on movable part 20, transponder 22-25 of movable part 20 is energized by way of an excitation oscillation produced by read unit 10. To interrogate control codes that can be generated by the actuation of buttons on movable part 20, transmission unit 12 sends to read unit 10, via antenna 11, an electromagnetic pulse (the so-called excitation oscillation) that lasts for a predefined period, in the present example approximately 50 ms. For this purpose, an oscillator 33 operating at a frequency of, for example, 125 kHz is connected for the duration of the excitation pulse (50 ms), via a switch 34 that is actuated by control unit 13 and is brought for this purpose into a first switch position 1, to a resonance oscillation circuit, comprising capacitor 32 and coil 31 acting as transmission antenna, whose resonant frequency is tuned to the frequency of oscillator 33.

The excitation oscillation emitted by read unit 10 is intercepted by further antenna 21 (in the form of

a further coil 41), operating on the same frequency, of a further oscillation circuit of movable part 20 that comprises further coil 41 and further capacitor 42. For energy recovery, the received AC voltage signal is rectified by way of a diode 43 that functions as energy recovery circuit 22, and the energy resulting therefrom is stored in energy reservoir 23, configured in the present exemplary embodiment as a capacitor 44 with a high specific capacitance, i.e. with a high capacitance in terms of volume.

Once the excitation oscillation has decayed, data transfer begins from movable part 20 to transmission and reception device 10, i.e. movable part 20 emits, via further antenna 21, an oscillation modulated with a code selected via operating unit 26. For this purpose, by actuation of an operating element 28 on operating unit 26 (in the present case a button), the code associated with that button is read out from memory 27 and delivered to further transmission unit 24. In the simplest case, this is accomplished by the fact that a memory cell of memory 27 associated with a button is connected to transmission unit 24 via a pushbutton switch actuated by the button.

In the present exemplary embodiment, however, the association between actuation of an operating element 28 of operating unit 26 and a code stored in memory 27 is accomplished via further control unit 25.

In addition, further transmission unit 24 is activated via further control unit 25 of movable part 20, and the oscillation produced within transmission unit 24 - at 125 kHz in the present exemplary embodiment - is modulated by a code read out from memory 27. In the present case, the type of modulation utilized is frequency modulation, the transmission frequency being shifted between the fundamental frequency of 125 kHz and 130 kHz by way of the code, which is present in binary form,. In principle, however, other types of modulation such as phase modulation and amplitude modulation, and other frequencies, are also usable.

The energy necessary for production of the modulated transmitted signal is taken from energy reservoir 23. The modulated transmitted signal produced by transmission unit 24 is delivered to further oscillating circuit 41, 42 and emitted via coil 41.

In addition to the functions described, further control unit 25 of movable part 20 has the task of confining emission or production of the transmitted signal to the time frames necessary for transfer of the selected code. This ensures that only the code being transferred is emitted during the transfer time period.

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The transmitted signal emitted from movable part 20 is received by antenna 11 of transmission and reception device 10 and conveyed via controllable switch 34, which in a second switch position creates a connection between oscillating circuit 31, 32 and reception unit 14, to reception unit 14 of transmission and reception device 10. By demodulation of the received transmitted signal, the transferred code is isolated in reception unit 14 and is associated in analysis unit 15 with a control instruction for controlling the attached electronic device 30.

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In the present exemplary embodiment, provision is made for the oscillation that excites the transponder of movable part 20 and the transmitted signal emitted from movable part 20 to be transferred on the same frequency of, for example, 125 kHz. This requires that transmission of the excitation oscillation by transmission and reception device 10, and of the transmitted signal by movable part 20, be accomplished in continuous alternation.

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The rhythm with which emission of the excitation oscillation and the transmitted signal occurs is defined by controller 13 of transmission and reception device 10. For example, switch 34 is held by controller 13 in its first switch position for a predefined time period of, for example, 50 ms, so that for that time period an excitation oscillation is emitted. Once the predefined time period has elapsed, switch 34 is brought by controller 13 into a second switch position, so that now antenna 11 of transmission and reception device 10 is connected to reception unit 14. During the time segment following the switchover of switch 34 into the second switch position, the transmitted signal is emitted from movable part 20.

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Synchronization between further transmission unit 24 in the movable part and the switchover of switch 34 is accomplished by determining the movable-part antenna voltage in further control unit 25. A decrease in the antenna voltage after the excitation oscillation has been received indicates that switch 34 in transmission and reception device 10 has been switched over and that the transmission

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and reception device is now ready to receive, and is used to initiate the transmission operation at the movable-part end. Once a time span sufficient for emission of a transmitted signal (in the present case 20 ms) has elapsed, further transmission unit 24 of movable part 20 is switched off and the transmission operation is thus terminated.

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Once the predefined transmission period, which is known in controller 13 of the transmission and reception device, has elapsed, switch 34 is brought back into the first switch position and another excitation oscillation is emitted.

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New Claims

1. An arrangement for influencing the operating state of an electronic device (30), having a movable part (20) comprising a transponder (22-25), for operating the electronic device, and the device (30) to be controlled, which is connected to a transmission and reception device (10) that comprises a transmission unit (12) for emitting an electromagnetic oscillation for exciting a transponder (22-25), a reception unit (14) for receiving and demodulating a modulated electromagnetic oscillation emitted from the transponder (22-25), and an analysis unit (15) for converting the demodulated electromagnetic oscillation emitted from the transponder (22-25) into control instructions to influence the operating state of the electronic device (30), characterized in that the movable part (20) has a code generator (27) in which can be generated a number of codes that can be selected, via at least one operating unit (26) arranged on the movable part (20), in order to modulate the electromagnetic oscillation emitted from the transponder (22-25); and that various operating states on the electronic device (30) can be initiated by selection of the codes.
2. The arrangement as defined in Claim 1, characterized in that radiation of the electromagnetic oscillation that excites the transponder (22-25), and of the electromagnetic oscillation emitted from the transponder (22-25), is provided in continuous alternation.
3. The arrangement as defined in one of the foregoing claims, characterized in that the transmission output/-s and transmission frequency/-ies are selected so that the range of the electromagnetic oscillations emitted from the transmission unit (12) and from the transponder (22-25) is confined to a predefined circumference around the transmission and reception (10) and the movable part (20) that is necessary for operation of the electrical device.
4. An apparatus for controlling an electronic device (30), in the form of a movable part (20) comprising a transponder (20), characterized in that the movable part (20) has a code generator (27) in which can be generated a number of codes that can be selected, via at least one operating unit (26) arranged on the movable part (20), in order to modulate the electromagnetic oscillation emitted from the transponder (22-25)
5. The apparatus as defined in Claim 4, characterized in that the operating unit (26) of the movable part (20) has a plurality of operating elements (28), preferably pushbuttons; and that a code produced in the code generator (27) is associated with each operating element (28).
6. The apparatus as defined in Claim 4 or 5, characterized by a further control unit (25) that limits the production or emission of the transmitted signal to the time necessary for transfer of the selected code.
7. A remotely controllable electronic device (30) having

Art. 34

- a transmission and reception device (10) that comprises a transmission unit (12) for emitting an electromagnetic oscillation for exciting a transponder (22-25), and a reception unit (14) for receiving and demodulating a modulated electromagnetic oscillation emitted from the transponder (22-25), and
 - an analysis unit (15) for converting the demodulated electromagnetic oscillation emitted from the transponder (22-25) into control instructions to influence the operating state of the electronic device (30).
8. The electronic device as defined in Claim 7, characterized in that the electronic device (30) is an entertainment electronics device, in particular an audio device for motor vehicles.

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Abstract of the Disclosure

The invention proposes an apparatus, comprising a movable part and a transmission and reception device, for remote control of an electronic device, in particular of an entertainment electronic device, using a transponder. In order to initiate various functions, there are stored in a memory of the movable part various codes that, after selection by way of an operating unit, e.g. pushbutton, arranged in the movable part, are emitted from a transponder arranged in the movable part in the form of a modulated transmitted signal that is analyzed in the device in order to produce control signals.

**COMBINED DECLARATION AND
POWER OF ATTORNEY FOR PATENT APPLICATION**

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below adjacent to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled "APPARATUS FOR INFLUENCING THE OPERATING STATE OF AN ELECTRONIC DEVICE," and the specification of which:

- ☐ is attached hereto;
- ☐ was filed as United States Application Serial No. _____ on _____, 19__ and was amended by the Preliminary Amendment filed on _____, 19__.
- ☒ was filed as PCT International Application Number PCT/DE98/00303, on the 4th day of February, 1998.
- ☒ an English translation of which is filed herewith.

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to the examination of this application in accordance with Title 37, Code of Federal Regulations, §1.56(a). I hereby claim foreign priority benefits under Title 35, United States Code § 119 of any foreign application(s) for patent or inventor's certificate or of any PCT international applications(s) designating at least one country other than the United States of America listed below and have also identified below any foreign application(s) for patent or inventor's certificate or any PCT international application(s) designating at least one country other than the United States of America filed by me on the same subject matter having a

filing date before that of the application(s) of which priority is claimed:

**PRIOR FOREIGN/PCT APPLICATION(S)
AND ANY PRIORITY CLAIMS UNDER 35 U.S.C. § 119**

Country : Germany

Application No. : 1 97 11 788.0

Date of Filing: March 21, 1997

Priority Claimed

Under 35 U.S.C. § 119 : ☒ Yes ☐ No

I hereby claim the benefit under Title 35, United States Code § 120 of any United States Application or PCT International Application designating the United States of America that is/are listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in that/those prior application(s) in the manner provided by the first paragraph of Title 35, United States Code § 112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations § 1.56(a) which occurred between the filing date of the prior application(s) and the national or PCT international filing date of this application:

**PRIOR U.S. APPLICATIONS OR
PCT INTERNATIONAL APPLICATIONS
DESIGNATING THE U.S. FOR BENEFIT UNDER 35 U.S.C. § 120**

U.S. APPLICATIONS

Number :

Filing Date :


**PCT APPLICATIONS
DESIGNATING THE U.S.**

PCT Number :

PCT Filing Date :

I hereby appoint the following attorney(s) and/or agents to prosecute the above-identified application and transact all business in the Patent and Trademark Office connected therewith.

(List name(s) and registration number(s)):

 Richard L. Mayer, Reg. No. 22,490
Gerard A. Messina, Reg. No. 35,952
_____, Reg. No. _____
_____, Reg. No. _____

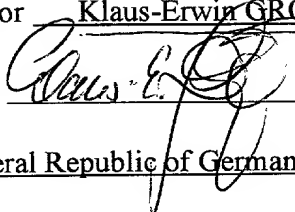
All correspondence should be sent to:

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New York, New York 10004

Telephone No.: (212) 425-7200
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I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment or both under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

1-00
Full name of inventor Klaus-Erwin GRÖGER

Inventor's signature  Date 10.08.99

Citizenship Federal Republic of Germany

Residence Söhrer Tor 4
31199 Diekholzen
Federal Republic of Germany DEX

Post Office Address Same as above

208134

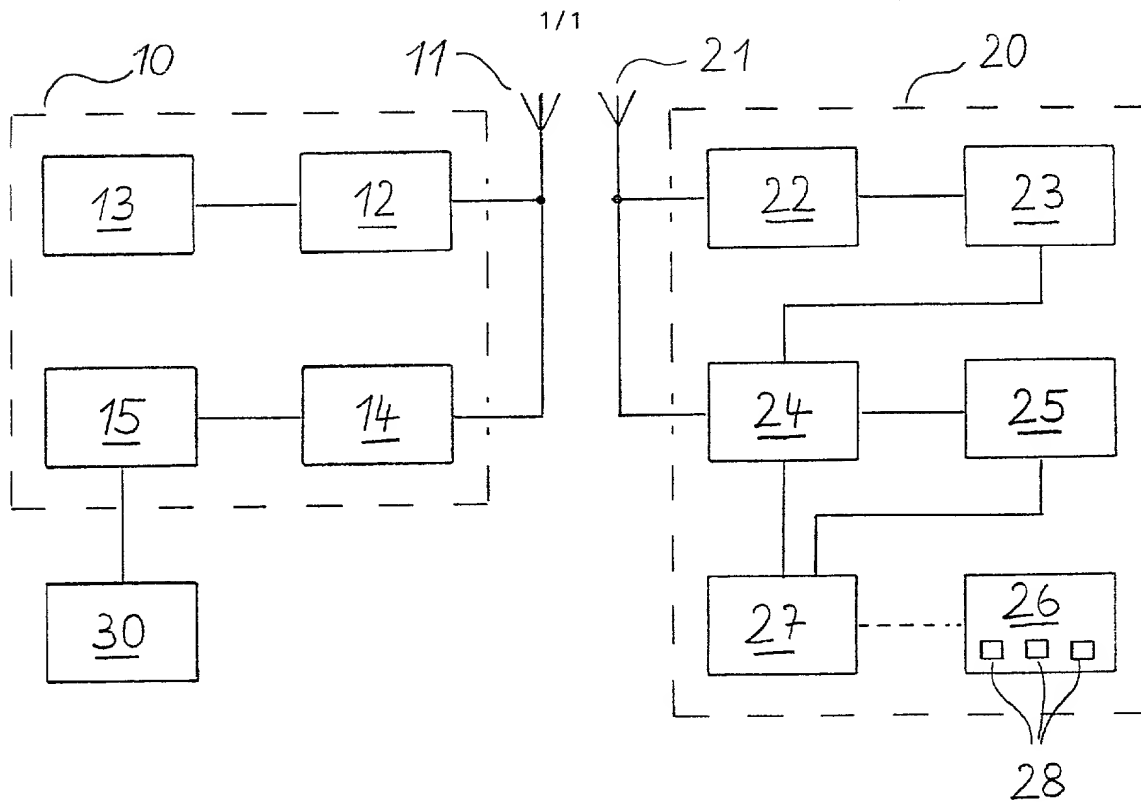


Fig. 1

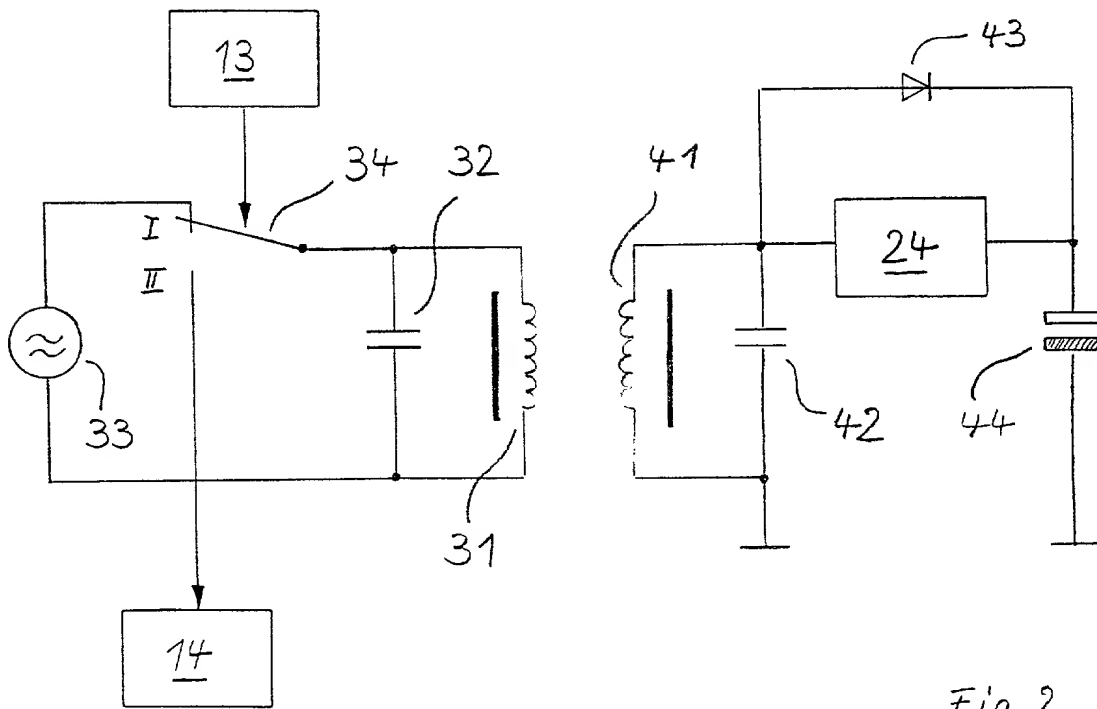


Fig. 2